

drawings, also generally preferred improvements and further developments of the teaching are described.

On page 17, between lines 19 and 20, insert

--Brief Description of the Drawings

In the drawings:--

On page 17, between lines 24 and 25, insert

--Detailed Description of the Preferred Embodiment--.

In the Claims:

Cancel Claim 1, without prejudice.

Add the following new Claims 30-53:

30. (New) A device for examining materials comprising a pulse generator for generating a pulse that can be introduced into the material,

at least one sensor configured for being positioned with respect to the material so as to detect the pulse, and

an electronic evaluation device for discriminating the pulse from interfering pulses, with the electronic evaluation device being positioned directly adjacent or integrated in said one sensor.

31. (New) The device of Claim 30, wherein the pulse is a mechanical and/or electrical pulse.

32. (New) The device of Claim 30 wherein the electronic evaluation device includes means for generating an electrical signal.

33. (New) The device of Claim 32 wherein the electrical signal is connected for transmission to a central unit.

34. (New) The device of Claim 33 wherein the central

unit comprises a personal computer.

35. (New) The device of Claim 30, wherein said device comprises a plurality of said sensors, and wherein an electronic evaluation device is positioned directly adjacent or integrated in each sensor.

36. (New) The device of Claim 35 wherein said sensors are electrically interconnected.

37. (New) The device of Claim 35 wherein each of the sensors is operatively connected to a central unit.

38. (New) The device of Claim 35 wherein each of the sensors is operatively connected to a central unit via a transmitter-receiver unit associated with each sensor.

39. (New) The device of Claim 35 wherein each of the sensors has a vibration damper associated therewith.

40. (New) The device of Claim 39 wherein each vibration damper is a piezoelectric element.

41. (New) The device of Claim 35 wherein a transmission pin is associated with each sensor.

42. (New) The device of Claim 35 wherein a clock is associated with each sensor.

43. (New) The device of Claim 35 wherein an identification symbol is associated with each sensor.

44. (New) The device of Claim 35 wherein a storage for measurement results is associated with each sensor.

45. (New) The device of Claim 35 wherein a display for

measurement results is associated with each sensor.

46. (New) The device of Claim 35 wherein each of said sensors includes a pulse generator.

47. (New) The device of Claim 35 wherein at least one of said sensors mounts means for introducing pulses to said material.

48. (New) The device of Claim 47 wherein said means for introducing pulses comprises a pin.

49. (New) The device of Claim 35 wherein said pulse generator comprises a hammer.

50. (New) The device of Claim 35 wherein each electronic evaluation device includes means for self calibration.

51. (New) The device of Claim 35 wherein each sensor is connected to a pull out measurement stick.

52. (New) The device of Claim 35 wherein each sensor is connected to a rope with an angle display.

53. (New) The device of Claim 35 further comprising an infrared or laser distance measuring instrument for measuring the position of each sensor.